

SANJAY KUMAR CHHETRI

QUANTITATIVE ANALYTICS | DATA SCIENCE | STATISTICAL MODELING

Baltimore, Maryland | [Email](#) | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

PROFESSIONAL SUMMARY

Quantitative analytics professional with an M.A. in Psychological Sciences, a Graduate Certificate in Advanced Quantitative Methods, and 700+ hours of applied data science training. Experienced in predictive modeling, statistical inference, data cleaning and validation, large-dataset analysis, model evaluation, and translating analytical results into decision-relevant insights. Proficient in Python, SQL, R, SPSS, Excel, scikit-learn, pandas, and reproducible analytical workflows. Brings rigorous model-testing experience, strong written communication, and a research mindset well suited to data-driven risk and portfolio analytics.

QUANTITATIVE & TECHNICAL SKILLS

Programming & Data Modeling & Statistics	Python, SQL, R, pandas, NumPy, Excel, Git/GitHub, Jupyter
Machine Learning	Predictive modeling, regression, classification, multivariate analysis, path modeling, mediation, bootstrapping, model evaluation
Data & Reporting	scikit-learn, feature engineering, train/validation/test workflows, cross-validation, NLP, embeddings, recommender systems
	Data cleaning, validation, integration, exploratory analysis, visualization, reproducible workflows, stakeholder communication

SELECTED QUANTITATIVE PROJECTS

Misinformation Classification & Model Evaluation | Independent / Portfolio Research 2025-2026

- Consolidated and analyzed 21,724 news articles; built reproducible preprocessing and modeling workflows and evaluated logistic-regression and hybrid models, achieving validation AUC up to 0.862.
- Diagnosed potential data leakage in a transformer-based modeling workflow, demonstrating model-risk awareness and emphasis on defensible validation rather than headline performance.
- Extended the research to LIAR2 political-claim data, emphasizing data quality, feature construction, classification methodology, and transparent comparison of modeling choices.

Emotion-Based Book Recommender | Applied Machine Learning Project 2026

- Built and evaluated a semantic recommendation system on GoodBooks-10k using sentence embeddings; achieved Precision@10 of 0.820 versus 0.480 for a TF-IDF baseline and NDCG@10 of 0.817 versus 0.383.
- Compared competing approaches using multiple performance metrics, balancing predictive relevance, diversity, and interpretability.

Misinformation Vulnerability Study | Montclair State University 2025

- Designed and analyzed a quantitative study of 194 U.S. adults; constructed measures and applied regression, path modeling, mediation, and bootstrap inference to test competing behavioral hypotheses.
- Prepared validated analytic data and translated multivariate results into a thesis-length research report with explicit discussion of assumptions, limitations, and evidence strength.

PROFESSIONAL EXPERIENCE

Mathematics Educator / Data-Informed Instruction | Harford County Public Schools - Edgewood High School Feb 2025-Present

- Analyze assessment, assignment-completion, and student-performance data to identify patterns, prioritize interventions, and support instructional decisions across multiple courses.
- Developed streamlined tracking and reporting workflows that reduced routine monitoring time by approximately 30% and supported an estimated 15-20% improvement in assignment completion.
- Manage confidential student information and communicate quantitative findings to students, educators, and administrators with high attention to accuracy and context.

Applied Data Science Fellow | Springboard Data Science Career Track 2025-2026

- Completed 700+ hours of project-based work in Python, SQL, statistics, machine learning, data visualization, and end-to-end analytical workflows.
- Built reproducible pipelines for data preparation, exploratory analysis, feature engineering, predictive modeling, validation, and communication of findings.

Mathematics, Statistics & Physics Educator | Threefold Educational Foundation / Green Meadow Waldorf School Jan 2022-Jan 2025

- Monitored academic performance across 300+ students and used quantitative evidence to identify learning patterns, evaluate progress, and communicate results.
- Designed Excel-based survey and data-analysis activities that developed practical statistical reasoning and interpretation.

Graduate Research Assistant | Montclair State University Aug 2020-May 2022

- Supported quantitative behavioral research through study design, data preparation and validation, R/SPSS analysis, regression and multivariate methods, visualization, and research reporting.
- Collaborated with faculty researchers on methodological decisions and publication-ready analyses; contributed to a peer-reviewed 2026 Journal of Nonverbal Behavior article.

EDUCATION

M.A., Psychological Sciences - Montclair State University, 2025

Graduate Certificate, Advanced Quantitative Methods - Montclair State University, 2025

B.A., Psychology - Ramapo College of New Jersey, 2019

B.A., Mathematics & English Literature - Tribhuvan University, 2016

RELEVANT GRADUATE COURSEWORK

Multivariate Statistics | Quantitative & Statistical Methods | Psychometrics | Theory Building & Model Testing | Data Science for Social Scientists | Research Methods

PUBLICATION

Bjornsdottir, R. T., Wilson, J. P., & Chhetri, S. K. (2026). *Medical Face Masks on First Impressions*. Journal of Nonverbal Behavior.